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OW protein - protein search, using sw model

Run on: June 9, 2003, 07:08:10 ; Search time 146 Seconds
(without alignments)
266.586 Million cell updates/sec

Title: US-10-091-628-2
Perfect score: 1979
Sequence: 1-MRANSSSSACPNSSSEEL.....PGMDCRRALPVGHTSC 377

Scoring table:
BLOSUM62
Gapop 10.0 , Gapext 0.5

ched: 392085 seqs, 103240269 residues
Total number of hits satisfying chosen parameters: 392085

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB pep:*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB pep:*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB pep:*
- 7: /cgn2_6/ptodata/1/pubpaa/PCTIS_PUBCOMB pep:*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB pep:*
- 9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB pep:*
- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB pep:*
- 14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being predicted, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1979	100.0	377	US-10-091-628-2	Sequence 2, Appli
2	322.5	16.3	438	US-10-091-628-5	Sequence 5, Appli
3	268.5	13.6	335	US-09-738-626-4892	Sequence 4892, Ap
4	264.5	13.4	324	US-09-738-626-6054	Sequence 6054, Ap
5	142	7.2	65	US-09-864-761-46433	Sequence 46433, A
6	114	5.8	372	US-09-966-871-80	Sequence 80, Appl
7	114	5.8	372	US-10-039-645-80	Sequence 80, Appl
8	113.5	5.7	772	US-09-935-799A-2	Sequence 2, Appli
9	113.5	5.7	772	US-09-935-799A-5	Sequence 5, Appli
10	105	5.3	324	US-09-738-626-6866	Sequence 6866, Ap
11	104.5	5.3	687	US-09-529-063-73	Sequence 73, Appl
12	103.5	5.2	304	US-09-738-626-6200	Sequence 6200, Ap
13	103.5	5.2	557	US-10-120-604-100	Sequence 100, App
14	103.5	5.2	687	US-10-120-604-6	Sequence 6, Appli
15	103.5	5.2	687	US-10-011-370-2	Sequence 2, Appli
16	103	5.2	697	US-09-989-919-108	Sequence 108, App
17	103	5.2	1146	US-09-824-734-2	Sequence 2, Appli
18	102.5	5.2	734	US-09-738-626-4227	Sequence 4227, Ap
19	101	5.1	370	US-09-823-114-21	Sequence 21, Appl

20	99.5	5.0	387	1	US-08-899-112-30	Sequence 30, Appl
21	99.5	5.0	387	9	US-09-966-762A-17	Sequence 17, Appl
22	99.5	5.0	387	9	US-10-212-980-10	Sequence 10, Appl
23	99.5	5.0	387	9	US-10-228-264-4	Sequence 4, Appli
24	98.5	5.0	344	10	US-09-992-647-12	Sequence 12, Appl
25	98.5	5.0	391	10	US-09-815-242-11566	Sequence 11566, A
26	98	5.0	493	10	US-09-815-242-5498	Sequence 5498, Ap
27	98	5.0	494	10	US-09-815-242-12410	Sequence 12410, A
28	98	5.0	544	9	US-09-738-626-3927	Sequence 3927, Ap
29	98	5.0	544	10	US-09-948-777-2	Sequence 2, Appli
30	98	5.0	835	9	US-10-120-604-138	Sequence 138, App
31	98	5.0	2115	9	US-10-208-948-4	Sequence 4, Appli
32	98	5.0	2150	9	US-10-208-948-27	Sequence 27, Appl
33	97.5	4.9	693	9	US-09-978-235A-483	Sequence 483, App
34	97.5	4.9	693	9	US-09-978-697-483	Sequence 483, App
35	97.5	4.9	693	9	US-09-978-132A-483	Sequence 483, App
36	97.5	4.9	693	9	US-09-999-832A-483	Sequence 483, App
37	97.5	4.9	693	9	US-09-978-189-483	Sequence 483, App
38	97.5	4.9	693	9	US-10-028-072-406	Sequence 406, App
39	97.5	4.9	693	9	US-10-121-049-406	Sequence 406, App
40	97.5	4.9	693	9	US-10-123-904-406	Sequence 406, App
41	97.5	4.9	693	9	US-10-140-470-406	Sequence 406, App
42	97.5	4.9	693	9	US-10-175-746-406	Sequence 406, App
43	97.5	4.9	693	9	US-10-176-918-406	Sequence 406, App
44	97.5	4.9	693	9	US-10-176-921-406	Sequence 406, App
45	97.5	4.9	693	9	US-10-227-884-134	Sequence 134, App

ALIGNMENTS

RESULT 1
US-10-091-628-2
Sequence 2, Application US/10091628
Patent No. US20020164627A1
GENERAL INFORMATION:
APPLICANT: Wilgowski, Nathaniel L.
APPLICANT: Nepomichy, Boris
APPLICANT: Burnett, Michael B.
APPLICANT: Hu, Yi
TITLE OF INVENTION: No. US20020164627A1 Human Transporter Proteins and Polynucleoti
FILE REFERENCE: LEX-0314-USA
CURRENT APPLICATION NUMBER: US/10/091,628
CURRENT FILING DATE: 2002-03-06
PRIOR APPLICATION NUMBER: US 60/275,009
PRIOR FILING DATE: 2001-03-12
PRIOR APPLICATION NUMBER: US 60/284,152
PRIOR FILING DATE: 2001-04-17
NUMBER OF SEQ ID NOS: 6
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 377
TYPE: PRT
ORGANISM: Homo sapiens
US-10-091-628-2

Query Match 100.0%; Score 1979; DB 9; Length 377;
Best Local Similarity 100.0%; Pred. No. 2.1e-173;
Matches 377; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRANSSSSACPNSSSEELPVGLEHGNLELFTVVSITVMGILMFSIGSVEIRKWS 60
DB 1 MRANSSSSACPNSSSEELPVGLEHGNLELFTVVSITVMGILMFSIGSVEIRKWS 60
QY HIRPFWGIVAGLCOFGIMPTAVYLAFSFKIPVOALVIMGCCPGGTSINFTFVWD 120
DB HIRPFWGIVAGLCOFGIMPTAVYLAFSFKIPVOALVIMGCCPGGTSINFTFVWD 120
QY 121 GDMDISMTTCSYVAALGMPPLCIYLYTWSMSIQONLTIFYONIGITLVLCITPVAGV 180
DB 121 GDMDISMTTCSYVAALGMPPLCIYLYTWSMSIQONLTIFYONIGITLVLCITPVAGV 180

Db 30 SNAATLPVGVKSPKMSPTARVGLVFGVIAVNGAIAFSRG--ETINSVVLV----- 82
Qy 68 IAVGLLCOFGMLPFRAYLAIATFSUK----- 93
Db 83 AAVG-----SYIIAFSFYARLIEYKVKPKDOPATPAEYVNDGKDYPTDRVL 131
Qy 94 -----PVQAIIV-----LIMCCPGGTISNIFTFVVD-----G 121
Db 132 FGHHAALAGAPLVGPVWBAQMGYLPGLMIIIGVIRAGVODIVLVWSTRRGRSISG 191
Qy 122 DW--DLISMTTCTVAALGMPCLLYLTWSLSQONLTIPLYONI-----GITVCL 172
Db 192 QVREDEMGVGGAGILATISIMIIIV-----LALIVNALADSPMGVFSITM 241
Qy 173 TTPVA--FGVYVNYMPKOSKIIILKAVGVGVLIVVAVAGVLAAGKSNMD--ITLLTI 229
242 TTPILFNGVYLYRYPGRVTEV---SIIQVALLLAIAGVWADTWSGVEMPTWSKT 297
Qy 230 SFIFPLIGHVTGFLAL 246
Db 298 TIALALICY--GIMAAI 312

RESULT 10
US-09-738-626-6866
; Sequence 6866, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/37484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 6866
; LENGTH: 324
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-6866

Query Match 5.3%; Score 105; DB 9; Length 324;
Best Local Similarity 20.3%; Pred. No. 0.12;
Matches 59; Conservative 55; Mismatches 119; Indels 58; Gaps 13;
Qy 34 FTVVSTVMVGMILFSLGSGVEIRKLSHRRPMGIAGVGLC-QFGIMPTAIVLAIISFPL 92
Db 35 FDVAVKIAIALFLYGARLSTOEALNGLKH-WRLHLTILAITFGIFPL-----IGIGL 87
Qy 93 KEVQAI-----AVLIMCCPGGTISNIFTFVVDGMDLSISMTTCTVAALGMPCL 144
Db 88 EEMTAFAVSEDIYKGLIFLTVPSVQSSVAFTSIKAGVAGVIVASISNLAGVFLTPLL 147
Qy 145 ILYIYWSMSLQONLTIPLYONIITLVCLTTPVAFGVYVNYRMPKQ-----SKIIILKGA 198
Db 148 VLLI---MSAGGVHVDSQVFLDIALQILLPFLIG-QVCRRWVVKFAANKATKIYDR--- 200

Qy 199 VVGVLIVVAVAGVLAAGKSNMDITLLTISFIP-----LIGHVTGFLALFTHOSWOR 254
Db 201 --GSIAWVYAFAGAGVAGIIV-STVSYLEIIVLIVRILVMMMLMTFLMARIIGRNR 257
Qy 255 CRTISLE-----TGAONIQMCTIMQLSFTAEHLVOML 287
Db 258 ADSIAIOFCGTRKSLATGLPMAAVIFGANIGLILPLMIF---HOVOLM 304

RESULT 11
US-09-529-063-73
; Sequence 73, Application US/09529063
; Patent No. US20020102542A1
; GENERAL INFORMATION:
; APPLICANT: FUKUSHIMA, DAIKICHI
; APPLICANT: SHIBAYAMA, SHIRO
; APPLICANT: TADA, HIDEAKI
; TITLE OF INVENTION: POLYPEPTIDE, CDNA ENCODING THE POLYPEPTIDE, AND USE OF
; FILE REFERENCE: 058769
; CURRENT APPLICATION NUMBER: US/09/529,063
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: PCT/JP98/04514
; PRIOR FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: JP 9-274674
; PRIOR FILING DATE: 1997-10-07
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 73
; LENGTH: 687
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-529-063-73

Query Match 5.3%; Score 104.5; DB 10; Length 687;
Best Local Similarity 23.4%; Pred. No. 0.34;
Matches 78; Conservative 35; Mismatches 126; Indels 95; Gaps 15;
Qy 42 MGLMFSIGSGVEIRKLSHRRPMGIAGVGLCOFGMLPFRAYLAIATFSUKPVQAIIVL 101
Db 409 VGVVSAALCLVSIAYICSRKRPDYTIKV--HNNLL-LAVFLDITFLLSEPVALTGS 465
Qy 102 IMCCPGGTISNIFTFVVDGMDLSISMTTCTVAALGMPCLLYLTWSLSQONLTIPL 161
Db 466 EAGC-----RASAIIF-----LHFSLLTC-----LSMWGLE----- 490
Qy 162 YONIGITLVCLTTPVAFGVYVNYRMPKOSKIIILKAVGV-LILVVA----- 211
Db 491 ----GYNYRILVVEV-FGTIV-----PGYLLKLSAMGWSGPIPLVTLVLDVDNYGP 538
Qy 212 -----GVLAAGKSNMD--ITLLTISFIPPLIGHVTGFLALFTHOSWORCRITS 259
Db 539 IILAVHRTPEGVIVPSMKWIRDSLVSYITNGLFSVLFLFNMAMLATWVQ-----ILR 592
Qy 260 LETGAONIQMCTIMQLSFTAEHLVOMLSPFLAYGLFOLI-----DGFILVAY 308
Db 593 LRPHTQKMSHVITLIGLSLVGLPMAVIFFSFASGTFPLVVLVLYLSITTSQSGFLIFTWY 652
Qy 309 QTYKRLKXKAG---KNSGCTEVCHTRKSTSS 338
Db 653 --WSWRLQARGQPSPLKNSDSARLPISSGSTSS 684

RESULT 12
US-09-738-626-6200
; Sequence 6200, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO

```

APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738, 626
CURRENT FILING DATE: 2000-12-18
PRIOR APPLICATION NUMBER: JP 99/377484
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: JP 00/159162
PRIOR FILING DATE: 2000-04-07
PRIOR APPLICATION NUMBER: JP 00/280988
PRIOR FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 6200
LENGTH: 304
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
99-738-626-6200

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Query Match	5.2%	Score 103.5;	DB 9;	Length 304;
Best Local Similarity	22.5%;	Pred. No. 0.15;		
Matches 54;	Conservative 36;	Mismatches 71;	Indels 79;	Gaps 14;

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Oy 18 EELPGLVEHGNLE-----LVFTVATVMMGGLMFLSGSVLRK-----WS-----60
Db 82 ENFMVGLTKRGSLTEALMSFTIILSVIY--LVFSAMTAYIYTRKWTWNTLLYLFV 139
Oy 61 -----HRRPWGIAVGLLCQF-----LMPFAYLLAISFSKPYQ 96
Db 140 SMIRPFQWMPPTVAKIADMLHNPIGIYV-LYLGFGSGLSVMPFAGFVSIPLDVE--196
Oy 97 AIAVLIMCCPEGGTSNIF--TFWVDGDMDLSISMTTCSTYAAAGMPPLCIYLYTWSLQ 155
Db 197 --AAMIDG--GPIQNYFRVW-----PMLKPAITVAIIANM-----WYWN--234
Oy 156 QNLTIPLYQNIIGTILVCLTIPIVAFGYVYVNRWPRQSLIKLIGAVGGLVLLVAVAGVYL 215
Db 235 -DYLLPIYVIGISTRKYTIPIVVIQSGVSGNGNDT-----GMMK--MLVTAIIPYI 284

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RESULT 13
US-10-120-604-100
; Sequence 100, Application US/10120604
; Publication No. US20030096347A1

APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING TWO NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR
TITLE OF INVENTION: HGP8RM128 AND HGP8RM129, AND SPLICED VARIANTS THEREOF

```

CURRENT APPLICATION NUMBER: US/10/120,604
CURRENT FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: US 60/283,145
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: US 60/283,161
PRIOR FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: US 60/288,468
PRIOR FILING DATE: 2001-05-03
PRIOR APPLICATION NUMBER: US 60/300,619
PRIOR FILING DATE: 2001-06-25
NUMBER OF SEQ ID NOS: 226
SOFTWARE: PatentIn version 3.0
SEQ ID NO 100
LENGTH: 557
TYPE: PRT
ORGANISM: homo sapiens
US-10-120-604-100

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Query Match	5.2%;	Score 103.5;	DB 9;	length 557;
Best Local Similarity	16.5%;	Pred. NO. 0.32;		

Matches 70; Conservative 69; Mismatches 131; Indels 153; Gaps 14;

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OY      1  NSEEE|PVGLEHGNLE|VFTVSTWMMGL|MSIGSVE|IRK|MSH|RRP|MD|AVGL 73
Db      97  NISEK|LMS|MSMN|NTED|IGM|Q|P|P|O-----|E|K|L|MR|AS|O|A|S|I|A|P|T|L 145
OY      74  CQGLM|P|TAY|L|A|I|S|F|L|K|P|O|A|V|A|V|L|M|C|C|P|G|T|S|N|I|F|T|P----- 117
Db      146  ---G|A|I|T|R|E|A|H|O|N|V|S|L-----P|R|O|V|G|V|I|A|S|V|L|P|E|R|Q|E|I|L|T|F|E|K|I|N|T|R|A|N|A|Q|C|W 199
OY      118  -----W|D|G|D|N|L|S|I|S|T|C|S|T|-----V|A|L|G|H----- 140
Db      200  HSKRR|W|D|E|K|A|Q|O|M|L|D|R|N|E|V|K|C|N|T|S|V|M|S|F|I|L|S|K|S|M|T|D|K|V|L|D|Y|T|C|I|G|S|V 259
OY      141  ---M|P|C|I|V|Y|T|W|S|M|Q|O|N|T|P|P|O-----N|I|G|T|L-----V 170
Db      260  I|S|L|V|I|C|L|I|E|A|T|W|S|R|V|V|T|E|S|T|S|R|H|V|C|I|N|A|V|L|T|A|N|W|F|I|G|S|H|N|I|K|A|Q|D|Y|N 31.9
OY      171  C|L|T|P|-----V|A|G|Y|V|N|T|R|W|P|K|O|S|I|I|K|I|G|A|V|G|G|U|L|L|V|A|V 21.0
Db      320  C|V|A|V|T|E|F|S|H|P|Y|L|S|F|W|N|L|P|K|A|L|I|Y|G|I|I|V|I|P|R|N|K|S|H|W|V-|G|F|A|I|G|C|P|L|I|A|V 37.8
OY      211  A|G|V|L|A|K|G|-----S|N|S|D|I|L|L|T|-----S|P|I|P|L|G|H|T|G|F|L|L|F|H|O|S|H|Q|R|C 25.5
Db      379  T|Y|A|I|E|P|E|N|G|T|R|P|R|A|C|H|W|L|N|D|N|T|K|A|L|A|P|R|A|F|V|V|A|V|N|L|V|L|V|V|A|V|N|T|R|P|P|----- 43.5
OY      256  R|I|S|E|T|G|A|O|N|I|O|M|C|I|T|W|L|S|F|T|A|E|H|V|M|L|S|P|L|A|Y|G|L|F|O|I|D|-----F|L|I|V|A 30.7
Db      436  -----I|G|S|K|S|Q|D|V|I|I|N|R|I|S|K|O|V|A|I|L|P|L|G|L|T|W|G|G|I|A|T|L|I|E|G|T|S|L|F|H|I|F|A|L|N|A 48.9
OY      308  Y|O|T 310
Db      490  F|O|T 492

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RESULT 14
US-10-120-604-6
; Sequence 6, Application US/10120604
; Publication No. US20030096347A1

; APPLICANT: Bristol-Myers Squibb Company
 ; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING TWO NOVEL HUMAN G-PROTEIN COUPLED RECEPTOR
 ; TITLE OF INVENTION: HGRBWT28 AND HGRBWT29, AND SPLICE VARIANTS THEREOF

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? CURRENT APPLICATION NUMBER: US-10/120,604
? CURRENT FILING DATE: 2002-04-11
? PRIOR APPLICATION NUMBER: US 60/283,145
? PRIOR FILING DATE: 2001-04-11
? PRIOR APPLICATION NUMBER: US 60/283,161
? PRIOR FILING DATE: 2001-04-11
? PRIOR APPLICATION NUMBER: US 60/288,468
? PRIOR FILING DATE: 2001-05-03
? PRIOR APPLICATION NUMBER: US 60/300,619
? PRIOR FILING DATE: 2001-06-25
? NUMBER OF SEQ ID NOS: 226
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 6
? LENGTH: 687
? TYPE: PRT
? ORGANISM: Homo sapiens
US-10-120-604-6

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Query Match	5.2%;	Score 103.5;	DB 9;	Length 687;
Best Local Similarity	23.4%;	Pred. No. 0.42;		
Matches	78;	Conservative	35;	Mismatches 126;
			Indels	95;
			Gaps	. 15

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QY 42 MGLMISLCGSEVIRKLMSHIRPPGIVAGLQCGMPFAYALLSFSLKPPQVALAVL 10
Db 409 VCGVSNALACTYIAIYLCSSRRKPPDYIKV--HNHL-LAVFLIDRSFLISEPVATGS 46
QY 102 IMGCCPGGTTISNIFTFWDGDMDSISMTCTGTYAALGMPLCIYLYTWSYSLQONTIP 16
Db 466 EAGC-----RASALF-----LHFSFLTC-----LSMGLGLE-----490

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